

AMENDMENTS TO THE CLAIMS

Please amend the claims as shown below. This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-2. (Canceled)

Claim 3. (Currently amended) ~~The image processing device according to claim 1~~ An image processing device for, when overprinting a multicolor original with a plurality of color inks, converting multivalued pixel values of a color space corresponding to an image of the multicolor original into multivalued pixel values of a color space corresponding to the color inks, the image processing device comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, convert the multivalued pixel values of the color space corresponding to the multicolor original into the multivalued pixel values of the color space corresponding to the color inks; and

a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted based on the color conversion LUT, and the multivalued pixel values of the color space corresponding to the

color inks, the multivalued pixel values being stored in the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein, when the multivalued pixel values of the color space corresponding to a later-printed color ink are equal to or more than a predetermined threshold value, the correction unit calculates a correction factor from the threshold value and the multivalued pixel values of the color space corresponding to the later-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to a previously-printed color ink.

Claim 4. (Currently amended) ~~The image processing device according to claim 1~~ An image processing device for, when overprinting a multicolor original with a plurality of color inks, converting multivalued pixel values of a color space corresponding to an image of the multicolor original into multivalued pixel values of a color space corresponding to the color inks, the image processing device comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, convert the multivalued pixel values of the color space corresponding to the multicolor original into the multivalued pixel values of the color space corresponding to the color inks; and

a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted based on the color conversion LUT, and the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being stored in the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein the correction unit calculates a correction factor from the multivalued pixel values of the color space corresponding to a previously-printed color ink and a trapping rate of a later-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to the later-printed color ink.

Claim 5. (Currently amended) ~~The image processing device according to claim 1~~ An image processing device for, when overprinting a multicolor original with a plurality of color inks, converting multivalued pixel values of a color space corresponding to an image of the multicolor original into multivalued pixel values of a color space corresponding to the color inks, the image processing device comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, convert the multivalued pixel values of the color space

corresponding to the multicolor original into the multivalued pixel values of the color space corresponding to the color inks; and

a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted based on the color conversion LUT, and the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being stored in the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein the correction unit calculates a correction factor from the multivalued pixel values of the color space corresponding to a later-printed color ink and a back-trapping rate of a previously-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to the previously-printed color ink.

Claims 6-8. (Canceled)

Claim 9. (Currently amended) ~~The printer driver according to claim 8~~ A printer driver of a printing machine which overprints a multicolor original with a plurality of color inks based on image data of the multicolor original, the image data being created by an application program, the printer driver comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between multivalued pixel values of a color space corresponding to

the multicolor original and multivalued pixel values of a color space corresponding to the color inks, convert the multivalued pixel values of the color space corresponding to the multicolor original into multivalued pixel values of the color space corresponding to the color inks; and a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being stored in the color conversion LUT, and the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted with reference to the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein, when the multivalued pixel values of the color space corresponding to a later-printed color ink are equal to or more than a predetermined threshold value, the correction unit calculates a correction factor from the threshold value and the multivalued pixel values of the color space corresponding to the later-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to a previously-printed color ink.

Claim 10. (Currently amended) ~~The printer driver according to claim 8~~ A printer driver of a printing machine which overprints a multicolor original with a plurality of color inks based on image data of the multicolor original, the image data being created by an application program, the printer driver comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between multivalued pixel values of a color space corresponding to

the multicolor original and multivalued pixel values of a color space corresponding to the color inks, convert the multivalued pixel values of the color space corresponding to the multicolor original into multivalued pixel values of the color space corresponding to the color inks; and a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being stored in the color conversion LUT, and the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted with reference to the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein the correction unit calculates a correction factor from the multivalued pixel values of the color space corresponding to a previously-printed color ink and a trapping rate of later-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to the later-printed color ink.

Claim 11. (Currently amended) ~~The printer driver according to claim 8~~ A printer driver of a printing machine which overprints a multicolor original with a plurality of color inks based on image data of the multicolor original, the image data being created by an application program, the printer driver comprising:

a color space coordinate conversion unit configured to, with reference to a color conversion LUT which stores relationship between multivalued pixel values of a color space corresponding to the multicolor original and multivalued pixel values of a color space corresponding to the color

inks, convert the multivalued pixel values of the color space corresponding to the multicolor original into multivalued pixel values of the color space corresponding to the color inks; and a correction unit configured to correct at least one of the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being stored in the color conversion LUT, and the multivalued pixel values of the color space corresponding to the color inks, the multivalued pixel values being converted with reference to the color conversion LUT, according to the color inks and an overprint sequence of the color inks,

wherein the correction unit calculates a correction factor from the multivalued pixel values of the color space corresponding to later-printed color ink and a back-trapping rate of previously-printed color ink according to the overprint sequence, and by using the calculated correction factor, corrects the multivalued pixel values of the color space corresponding to the previously-printed color ink.

Claim 12. (New) The image processing device according to claim 3, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.

Claim 13. (New) The image processing device according to claim 4, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding

to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.

Claim 14. (New) The image processing device according to claim 5, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.

Claim 15. (New) The image processing device according to claim 9, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.

Claim 16. (New) The image processing device according to claim 10, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.

Claim 17. (New) The image processing device according to claim 11, wherein the color conversion LUT stores the relationship between the multivalued pixel values of the color space corresponding to the multicolor original and the multivalued pixel values of the color space corresponding to the color inks, the relationship being for the case where both or one of a trapping phenomenon and a back-trapping phenomenon does not occur when the color inks are overprinted.